

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) In vivo diagnostic or therapy micro-device comprising:
  - a substantially longitudinal body having a quadrilateral-shaped section, provided with at least one main canal in the direction of its length, one input of which is located at a first end of the body, wherein the first end face is a proximal face, and
  - a plurality of secondary canals connected to at least one main canal and opening up sideways by lateral outputs,  
wherein the in vivo diagnostic or therapy micro-device is implantable.
2. (Original) Micro-device according to claim 1, further comprising:
  - one or more electrodes arranged on an outside portion of the body,
  - one or more electrical connection pins located at the first end of the body close to the input to the said canal.
3. (Previously presented) Micro-device according to claim 2, the electrical connection pins comprising micro-cavities made in the body of the micro-device, the cavities having a height and width between 10  $\mu\text{m}$  and 50  $\mu\text{m}$ .
4. (Original) Micro-device according to claim 1, comprising at least two parallel main canals.
5. (Currently amended) Micro-device according to claim 1, at least one of the main canals opening up to a second end of the body, ~~called the distal end~~ wherein the second end is a distal face, and the input inlet into the at least one main canal being funnel-shaped.

6. (Original) Micro-device according to claim 1, the body having two parallel opposite surface areas between the first and the second ends, and comprising a second bevel-shaped end.
7. (Currently amended) Micro-device according to claim 1, the body having a square or rectangular section in which each side has a maximum dimension of less than 900  $\mu\text{m}$ , and the longitudinal extension of the body being between 0.5 cm and 3 cm.
8. (Original) Micro-device according to claim 1, the body of the device being made of silicon.
9. (Original) Micro-device according to claim 1, further comprising a wave guide.
10. (Currently amended) In vivo diagnostic or therapy micro-device comprising:
  - a substantially longitudinal body with a quadrilateral-shaped section, provided with at least one main canal in the direction of its length, one input of which is located at a first end face of the body, wherein the first end face is a proximal face;
  - one or more electrodes located on an outside portion of the body; and
  - one or more electrical connection pins located at the first end face of the body, close to the input to said canal,

wherein the in vivo diagnostic or therapy micro-device is implantable.
11. (Previously presented) Micro-device according to claim 10, the electrical connection pins comprising micro-cavities made in the body of the micro-device, the micro-cavities having a height and width between 10  $\mu\text{m}$  and 50  $\mu\text{m}$ .

12. (Original) Micro-device according to claim 10, comprising at least two parallel main canals.

13. (Currently amended) Micro-device according to claim 10, at least one of the main canals opening up to a second end face of the body, ~~called wherein the second end face is a~~ the distal end face, and the ~~inlet~~ input into the at least one main canal being funnel-shaped.

14. (Original) Micro-device according to claim 10, the body having two parallel opposite surface areas between the first and the second ends, and comprising a second bevel-shaped end.

15. (Currently amended) Micro-device according to claim 10, the body having a square or rectangular section in which each side has a maximum dimension of less than 900  $\mu\text{m}$ , and the longitudinal extension of the body being between 0.5 cm and 3 cm.

16. (Original) Micro-device according to claim 10, the body of the device being made of silicon.

17. (Original) Micro-device according to claim 10; further comprising a wave guide.

Claims 18-24. (Canceled)

25. (Currently amended) Micro-device according to claim 7 wherein the maximum dimension ~~if is~~ is less than 300  $\mu\text{m}$ .

26. (Currently amended) Micro-device according to claim 15 wherein the maximum dimension ~~if~~is less than 300  $\mu\text{m}$ .